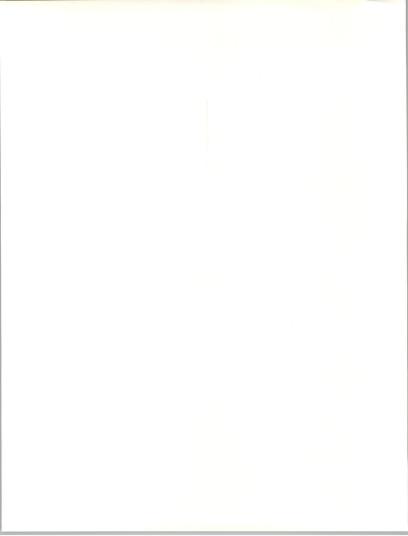
U.S. Information Services Industry

1991-1996 Outlook

R. Dennis Wayson Vice President INPUT



Topics

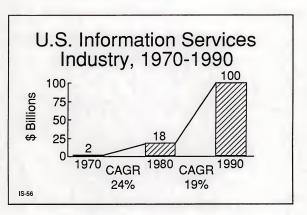
- Historic Perspective
- Driving Forces
- Market Outlook
- Opportunities and Conclusions

IS-55

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9/28/91

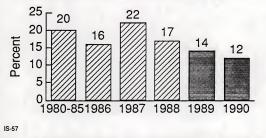


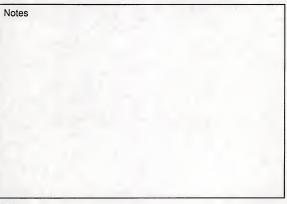


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U.S. Information Services Industry—Annual Growth Rates





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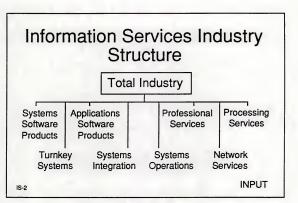
U.S. Information Services Industry, 1970 - 1990

- The industry grew 50 times
- U.S. economy grew 5.7 times
- · Consists of 11,000 vendors
- Created a U.S. competitive strength

IS-58

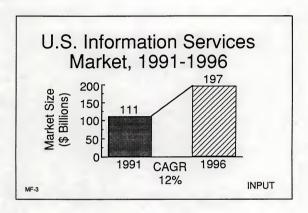
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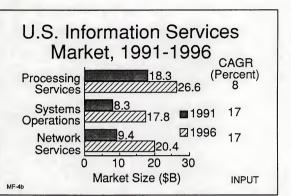
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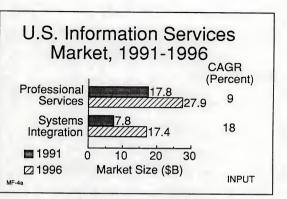
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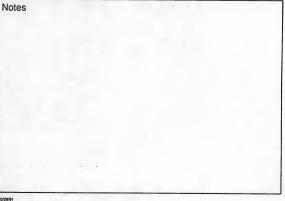






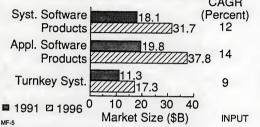








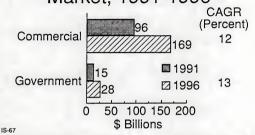
U.S. Information Services Market, 1991-1996

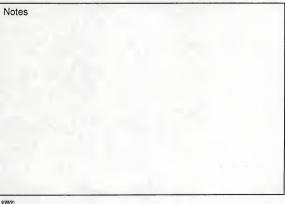






U.S. Information Services Market, 1991-1996







U.S. Information Services Market—Vertical Sectors

Largest	Fastest Growing
	State and Local Gov't.
Discrete Mfg.	Telecommunications
Federal Gov't.	Discrete Mfg.
Process Mfg.	Retail Distribution

IS-68 INPUT

Notes



Selected Leading Information Services Vendors

	1990 U.S.	Market Share (Percent)
Vendor	Rev. (\$B)	(Percent)
IBM	5.8	6
EDS	2.4	2
ADP	1.7	2

62

Notes

9/21/91

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Selected Leading Information Services Vendors

Vendor	1990 U.S. Rev. (\$B)	Market Share (Percent)
Computer Sciences	1.5	2
Digital Equipment	1.3	1
Andersen Consulting	1.2	1

MF-6b INPUT

Notes



The Computer Industry in the 1990s

What is Different?

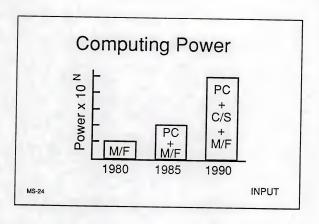
AUPN-DT- 4

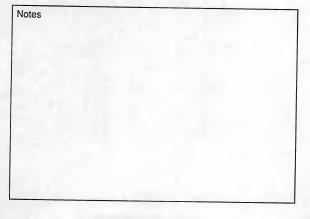
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Notes				

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The Systems Industry— Past

Demand increase - 30% to 40% per year

+

Price/performance improvement - 20% per year

=

Industry growth - 10% to 20% per year

INPUT

MACFC-PAC - 6

Notes

9/24/91



The Systems Industry— Now

Demand increase - 30% per year ?

+

Price performance improvement - 40% per year

=

Industry Shrinkage

INPUT

Notes

MACFC-PAC - 7

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The Systems Industry— Past

Operating environments protected core systems prices

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MACFC-PAC - 8

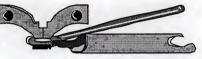
Notes



The Systems Industry— Now

Open Systems

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Notes

MACFC-PAC - 9



Revolutions

- Downsizing
- Outsourcing
- Networking

INPUT

Notes



Downsizing

Types of Downsizing

- Platform driven
- Application driven
- Organization driven

UIISP-PAC - 8

Notes

11/15/91

INPUT



Downsizing

Platform Driven Description

 Replacement of the core processing capability (platform) on a price/performance basis.

UNSP-PAC- 9

Notes



Application Driven Description

 Transfer of the application, either user interface or all, to a workstation or LAN environment.

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UIISP-PAC - 12

11/15/91

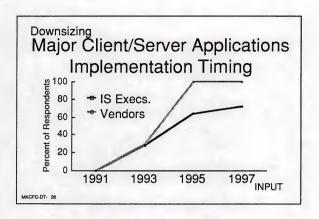


LAN Use—Active Central Applications

Application	% Act. 1990	% to be Act.—1992
Accounting	45	60
Executive Info Sys	27	65
Mainframe DBS Queries	40	72
1-95		INPUT

Notes		









IS Outsourcing Areas

- 1. Systems operations
- 2. Applications maintenance
- 3. Applications management
- 4. Network operations
- 5. Desktop services

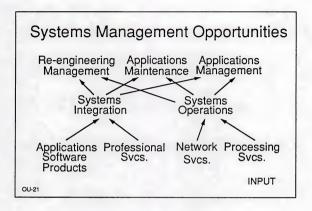
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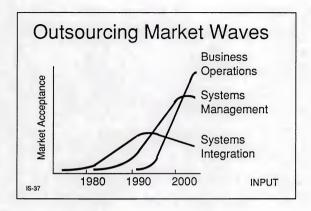
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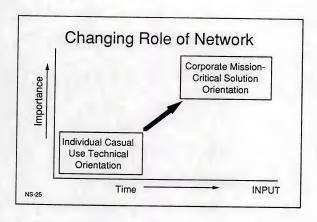
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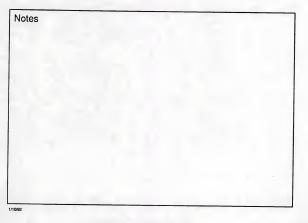














Open Systems

- Removes shield of proprietary technology
- Strengthens networking capabilities
- Removes price protection
- Changes the competitive rules

AUPN-DT- 5

INPUT

Notes			

1/10/92



Vendor Independence

Portability and interoperability is across multivendor environments

INPUT

UIISP-DT2 - 12

Notes	

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Open Systems—Level by Level

- · Chip Set
- Processor
- Operating environment and networking
- · Data base management
- Applications interface/GUI
- · Business applications

INPUT

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Notes		

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Revolutions or Evolutions?

- · Re-engineering
 - Organization: All or parts
 - IS Organization

INPUT

Notes

9/24/91

MACFC-PAC - 4



Re-engineering IS

- Used to be a separate function
- Now being integrated into organization
- · Will it disappear?

INPUT

MACFC-PAC - 12

Notes



The Changing Buyer

- General manager becomes primary buyer
- · IS becomes internal consultant
- · Solutions versus technology

IS-64a

INPUT

Notes		

9/28/91



The Changing Buyer

- Decisions become larger take longer
- The budget is decentralized—multiple buyers

IS-64b

Notes	П		



Definiton of Electronic Commerce

 Electronic commerce is the electronic, network-based coordination of material, people, and processes that facilitates commercial exchange

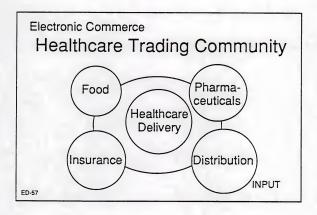
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Notes		

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Notes		



Effects and Dynamics

- · Participation of many parties
- Business transaction becomes the focus
- Restructuring of industry processes
- · Restructuring of trading community
- Users become vendors

Notes		



The Computer Industry in the 1990s

Technology Revolutions

+

Organizational Evolutions

=

All the rules have changed

INPUT

AUPN-DT- 7

Notes

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Opportunities and Conclusions

IS-70

Notes	



Conclusions

- Slower growth for 1991-1996
 - Slow rebound 1991-1992
 - Market growth 10% to 15% per year
 - · 1991—less than 10%
 - · 1996—15%
 - Maturity in some sectors

SC-15

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Notes		



Conclusions

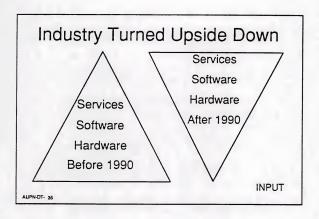
- · Outsourcing will be the bright spot
 - Services versus products
 - Solutions versus systems
 - Primary versus secondary vendors

SC-16a

INPUT

Notes		





Notes	



U.S. Information Services Industry Conclusions

- Outsourcing will be the bright spot
 - Functions versus projects
 - Long-term agreements
 - Increased reliance on vendor
 - Increased risk for vendor

SC-16b INPUT

Notes			

10/29/91



Conclusions

- Influence of large vendors will grow
 - Partnerships/Alliances
 - Minority investments
 - Account control through services

SC-17

Notes	



Conclusions

- · Vendor characteristics will change
 - Product vendors become services vendors
 - Primary vendors become secondary contractors

SC-18

Notes		



Where Is the New Beginning?

- Real user is the buyer
- Solutions not products or services
- Client-server could lead to a revolution

IS-71a

Notes		



Where Is the New Beginning?

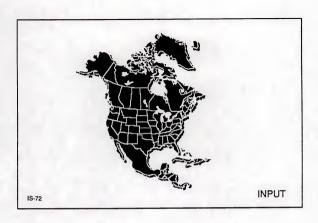
- Outsourcing = basis for shared success
- Standards eventually open new opportunities
- Regionalization of market

IS-71b

Notes

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Notes		



Single Message

Solutions focus on:
what it does
NOT
how it does it

IS-73



